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and which includes said input word data;

said selection step selects, if there are plural relevant word data in said dictionary, a desired word data is unique and terminates with the same character as a last input character or includes the same character as a last input character in a remaining part of said relevant word data not collated; and that

said output step outputs either one of said word data represented by said unique line of text determined in said determined step or said desired word data selected in said selecting step.

14. A text input method comprising:

inputting a plurality of lines of text data, character by character or stroke by stroke;

storing said lines of text data in a memory;

storing in a dictionary a plurality of data consisting of a string of characters or strokes to form an abbreviation or a shorthand and an original form of word data;

determining data in said dictionary which equals said text data;

selecting a desired word data among said data determined in said determining step;

outputting said word data selected in said selecting step; characterized in that

said dictionary storing step stores a plurality of lines of text data which represents unique words in said dictionary;

said determining step determines a unique line of text data in said dictionary which is unique and has a number of characters less than that in said dictionary and which includes said input line of text data at a time of each data input and, if there are detected a plurality of data which have the same stem of word, determines a unique

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line of text data which is unique and terminates with the same character as a last input character or which is unique and includes the same character as a last input character in a remaining part of said line of text data other than said stem of word at a time of next character input; and that

said output step outputs said line of text determined by said determining step.

15. A text input method according to claim 13 or 14, wherein said input step inputs a first character followed by other characters of said word data;

aid determining step determines said unique line of text in said dictionary which represents said unique word in said dictionary and which contains the first character followed by other characters of said input word data at a time of each character input and, where there are two or more data which contain the same first and other characters of said input word data, determines said unique line of text which terminates with the same character as a last input character at a time of next character input and, where there are two or more data with the same stem of word containing the same first and some other characters of said word data input, determines said unique line of text which terminates with the same character as the last input character, or which is unique and includes the same character as a last input character in a remaining part of line of text data not collated with the said line of text data at a time of next character input.

16. A text input method according to claim 13 or 14, wherein said dictionary storing step stores a plurality of lines of text or data which have a unique position count;

said determining step determines a unique line of text or data or a predetermined range of line of text or data which has a number of codes equal to or less than that in said dictionary, or which contains a first and other data of said input line of text or data at a time of each data

input and determines said line of text or data with said unique position count in said dictionary which is the same as contents of a data input counter by comparing said unique position count with said data input counter and adding 1 to said data input counter at a time of each data input or, in the case of detecting two or more lines of text or data which have a number of codes equal to or less than that in said dictionary and which includes said input line of text or data or which has the same leading part as that of said input line of text or data, determines said line of text or data with said unique position count in said dictionary which is the smallest or largest number among said lines of text or data by comparing said unique position count with a data input counter by adding 1 to said data input counter at a time of each data input.

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17. A text input method according to claim 13 or 14, wherein said determining step determines said unique line of text or data or a predetermined range of lines of text or data which has a number of codes equal to or less than that in said dictionary and which has the same first and last data as those of said input line of text or data and which includes some other data between said first and last data of said input line of text or data regardless of continuity of said other data while collating between said line of text or data and said dictionary data, either from left to right comparison of the first data and its following data or from right to left comparison of said last data and its preceding data.

18. A text input method according to claim 13 or 14, wherein said determining step determines said unique line of text or data or a predetermined range of lines of text or data which has a number of codes equal to or less than that in said dictionary, and which has the same leading part as said input line of text or data, and which has the same end part as the remaining part of said line of text or

data not collated with said leading part of said dictionary data.

19. A text input method according to claim 13 or 14, wherein said input step inputs a plurality of lines of text or data which consist of characters or strokes or radicals of a character or word pattern element data;

said dictionary storing step stores a plurality of lines of text or data which consist of characters or strokes of a character or radical or word pattern data;

said determining step determines a unique line of text or data or a predetermined range of lines of text or data in said dictionary which includes said input line of text or data or which contains first data followed by other data of said input line of text or data at a time of each data input;

said output step outputs said line of text or data or generates and outputs a print image generated by using said line of text or data determined in said determining step.

20. A text input method according to claim 13 or 14, wherein said dictionary storing step stores lines of text or data organized in a random access manner.

21. A text input method comprising the steps of:
inputting word data by character by character or stroke by stroke;

displaying said input word data at an end of data on a display;

determining if said input word data is identical with a unique line of text to represent a unique word in a dictionary;

replacing the input word data with the unique word from said dictionary so that it is no longer necessary to input a remaining part of the unique word, thereby maximizing text input efficiency;

selecting, if there are a plurality of relevant

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words in said dictionary, a desired word which is unique and terminates with a last input word data or which is unique and includes a last input word data in a remaining portion not collated yet and repeating from the inputting step.

22. A text input method according to claim 21, wherein said determining step comprises the steps of:

retrieving data from a middle of a retrieval area between upper and lower limits in said dictionary;

testing, if a leading part of said retrieved data is equal to said input word data, if it is single;

turning on a flag for a unique data and exiting this subprogram;

dividing, if a leading part of said retrieved data is greater or less than said input word data, said retrieval area into two to use a lower or upper half for a next retrieval;

testing, if plural data are found in said testing step, if said plural data have the same stem of a word;

turning on, if they have the same stem, a NONE FLAG and returning to said inputting step;

finding, if they do not have the same stem, any data with a leading part greater than that of said input word data in said upper half of said retrieval area;

setting, if no data is found, a new upper limit to retrieve in said dictionary using a position of said upper limit in said finding step;

setting, if any data is found, a new upper limit to retrieve in said dictionary using a position of said data found in said finding step;

finding any data with a leading part less than that of said input word data in said lower half retrieval area;

setting, if no data is found, a new lower limit using a position of said lower limit in said finding step and exiting this subprogram;

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setting, if some data is found, a new lower limit to retrieve using a position of said found data and exiting this subprogram.

performing, if NONE FLAG is on, ID CHECK to test if there is a unique data which terminates with a last input word data or which includes a last input word data in remaining positions not yet collated;

supplementing, if FLAG FOR UNIQUE WORD is on, a remainder of said input word data on said display, turning off said NONE FLAG, and returning to said inputting step, thereby maximizing text input efficiency.

23. A text input method according to claim 21, which further comprises the step of:

examining data selected in said selecting step; turning on, if there is a unique data which terminates with a last input word data, FLAG FOR UNIQUE WORD and exiting this subprogram;

extracting data which does not terminate with a last input word data or which does not include a last input word data in remaining positions not yet collated.--

In the Abstract:

Please substitute the attached abstract for the one on file.

REMARKS

In paragraph 1 of the Action, applicant was advised to review the foreign priority claim. ✓

In reply thereto, applicant hereby submits the certified copy of the correct Japanese application.

In paragraph 3 of the Action, a new declaration was required to amend the declaration on file. ✓

In reply thereto, applicant hereby submits a new declaration having the Serial Number and filing data thereon.